

PAGE 16/24 * RCVD AT 3/9/2004 4:11:53 PM [Eastern Standard Time] * SVR:USPTO-EFXRF-1/24 * DNIS:2731033 * CSID:2156562498 * DURATION (mm:ss):07:30

Printout 3

Catalog

Iron

Electrolytic Powder

Certified

Shaker for

H&M Chemical Company • 1001 Main Street • Iron Station, TN 35894 • Iron (Electrolytic Powder) (Certified)

Product search

More sellers

Advanced search

Product information

162-500

Quantity: 500g

Packaging: Amber glass

Each for \$126.08

Cases of 6 EA for \$752.49

Add to Shopping Cart

Fe AL 46.53.05

UN 3089

DOT Class 4.1: Flammable Solid

CAS Reg. 7439-95-6

MSDS

Chemical
Storage Code

Product Specifications

Actual Lot Analysis is reported on label

Assay [Iron (II)]

>=93%

Insoluble in Dilute H₂SO₄ <=0.50%

Nitrogen Compounds (as N)

<=0.003%

Sulfide

To pass test (about 0.02%)

printout 4.

Iron Filings, Degreased

Catalog

product type

product search

20

more solvent

instructions search

Fuller Chemical Catalog / (all) Full Standard to Iron Standard 20 (Iron Filings, Degreased)

20 product type

157-800

Each for \$66.12

Case of 6 EA for \$398.49

Add To Shopping Cart

Fuller Chem. 55.85

Fuller Chem. 55.85

DOT Class 4.1: Flammable Solid

Q48 Reg. 7139-99-6

ChemAlert Storage Code

MSDS

Certificate of Analysis

Product Specifications

Mesh Size

To pass test (about 40 mesh)

Material Safety Data Sheet

Iron ← (iron filings)

ACC# 11490

Section 1: Chemical Product and Company Identification

MSDS Name: Iron**Catalog Numbers:** S71953, S71953-1, I60 3, I60 500, I60-3, I60-500, I603, I60500, I62 500, I62-500, I62500, S71953-2, S719531, S719532**Synonyms:** Iron Dust; Iron Metal; Iron Powder.**Company Identification:**Fisher Scientific
1 Reagent Lane
Fair Lawn, NJ 07410**For information, call:** 201-796-7100**Emergency Number:** 201-796-7100**For CHEMTREC assistance, call:** 800-424-9300**For International CHEMTREC assistance, call:** 703-527-3887

Section 2: Composition, Information, Ingredients

Chemical Name	Concentration	Emergency
7439-89-6 IRON	>97	231-096-4

Hazard Symbols: None listed.**Risk Phrases:** None listed.

Section 3: Hazards Identification

EMERGENCY OVERVIEW

Appearance: black to gray solid. **Warning!** Flammable solid. May cause blood abnormalities. Inhalation of fumes may cause metal-fume fever. May cause lung damage. May cause cardiac disturbances. May cause liver damage. May cause mechanical eye and skin irritation.

Target Organs: Liver, respiratory system, cardiovascular system, pancreas.

Potential Health Effects

Eye: Exposure to particulates or solution may cause conjunctivitis, ulceration, and corneal abnormalities.

Skin: May cause skin irritation.

Ingestion: May cause gastrointestinal irritation with nausea, vomiting and diarrhea. Acute toxicity may include weakness, shock, cyanosis and acidosis. Delayed symptoms may include liver damage.

Inhalation: Inhalation of fumes may cause metal fume fever, which is characterized by flu-like symptoms with metallic taste, fever, chills, cough, weakness, chest pain, muscle pain and increased white blood cell count. May cause lung damage.

Chronic: Chronic exposure may lead to liver and lung damage. Repeated exposure may cause pancreatic damage, diabetes, and cardiac abnormalities.

Chemical Name	ACGIH	NIOSH	OSHA - PEL
IRON	none listed	none listed	none listed

OSHA Vacated PELs: IRON: No OSHA Vacated PELs are listed for this chemical.

Personal Protective Equipment

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin: Wear impervious gloves.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: Follow the OSHA respirator regulations found in 29CFR 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.

Section 9: Physical and Chemical Properties

Physical State: Solid

Appearance: black to gray

Odor: none reported

pH: Not available.

Vapor Pressure: 1 mm Hg @ 1787C

Vapor Density: Not available.

Evaporation Rate: Negligible.

Viscosity: Not available.

Boiling Point: 4982 deg F

Freezing/Melting Point: 2795 deg F

Decomposition Temperature: Not available.

Solubility: Insoluble in water.

Specific Gravity/Density: 7.86 @ 20C

Molecular Formula: Fe

Molecular Weight: 55.847

Section 10: Stability and Reactivity

Chemical Stability: Decomposes when heated. Oxidizes when exposed to air.

Conditions to Avoid: Incompatible materials, moisture, exposure to air, excess heat.

Incompatibilities with Other Materials: Acetaldehyde, ammonium peroxodisulfate, chloroformamidinium, chloric acid, ammonium nitrate, halogens, dinitrogen tetroxide, nitryl fluoride, polystyrene, sodium acetylde, potassium dichromate, peroxyformic acid, nitryl fluoride, sulfuric acid, sodium carbide.

Hazardous Decomposition Products: Oxides of iron.

Hazardous Polymerization: Has not been reported.

Section 11: Toxicological Information

RTECS#:

CAS# 7439-89-6: NO4565500

LD50/LC50:

CAS# 7439-89-6:

Oral, rat: LD50 = 30 gm/kg;

Carcinogenicity:

CAS# 7439-89-6: Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.

Epidemiology: No information available.

Teratogenicity: No information available.

Reproductive Effects: No information available.
Neurotoxicity: No information available.
Mutagenicity: No information available.
Other Studies: None.

Section 12 - Ecological Information

Ecotoxicity: No data available. No information available.
Environmental: No information reported.
Physical: No information available.
Other: None.

Section 13 - Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

RCRA P-Series: None listed.

RCRA U-Series: None listed.

Section 14 - Transport Information

	US DOT DATA	IMO	ICAO
Shipping Name:	METAL POWDERS, FLAMMABLE, N.O.S.		METAL POWDERS FLAMMABLE NOS (IRON)
Hazard Class:	4.1		4.1
UN Number:	UN3089		UN3089
Packing Group:	II		III

Section 15 - Regulatory Information

US FEDERAL

TSCA

CAS# 7439-89-6 is listed on the TSCA inventory.

Health & Safety Reporting List

None of the chemicals are on the Health & Safety Reporting List.

Chemical Test Rules

None of the chemicals in this product are under a Chemical Test Rule.

Section 12b

None of the chemicals are listed under TSCA Section 12b.

TSCA Significant New Use Rule

None of the chemicals in this material have a SNUR under TSCA.

SARA

Section 302 (RQ)

None of the chemicals in this material have an RQ.

Section 302 (TPQ)

None of the chemicals in this product have a TPQ.

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SARA Codes

CAS # 7439-89-6: acute, flammable.

Section 313

No chemicals are reportable under Section 313.

Clean Air Act:

This material does not contain any hazardous air pollutants. This material does not contain any Class 1 Ozone depleters. This material does not contain any Class 2 Ozone depleters.

Clean Water Act:

None of the chemicals in this product are listed as Hazardous Substances under the CWA. None of the chemicals in this product are listed as Priority Pollutants under the CWA. None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

OSHA:

None of the chemicals in this product are considered highly hazardous by OSHA.

STATE

CAS# 7439-89-6 can be found on the following state right to know lists: California.
California No Significant Risk Level: None of the chemicals in this product are listed.

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols:

Not available.

Risk Phrases:

Safety Phrases:

WGK (Water Danger/Protection)

CAS# 7439-89-6: 0

Canada - DSL/NDSL

CAS# 7439-89-6 is listed on Canada's DSL List.

Canada - WHMIS

This product has a WHMIS classification of B4, D2B.

Canadian Ingredient Disclosure List

CAS# 7439-89-6 (listed as Iron salts (soluble)) is listed on the Canadian Ingredient Disclosure List.

Exposure Limits

Section 1 - General Information

MSDS Creation Date: 12/12/1997

Revision #1 Date: 8/02/2000

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Fisher be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Fisher has been advised of the possibility of such damages.